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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,027	02/28/2002	Adam W. Smith	MS1-861USC1	6939

22801 7590 05/04/2006

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EXAMINER

ANYA, CHARLES E

ART UNIT	PAPER NUMBER
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2194

DATE MAILED: 05/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/087,027

Applicant(s)

SMITH ET AL.

Examiner

Charles E. Anya

Art Unit

2194

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 2/16/06.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-41 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-41 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

WILLIAM THOMSON  
SUPERVISORY PATENT EXAMINER

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 2/16/06; 8/22/03; 4/27/04; 1/6/04; 9/10/04
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

1. Claims 1-41 are pending in this application.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1-8,10-16,19-22,24-29,31-34 and 36-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 6,792,605 B1 to Roberts et al. in view of U.S. Pub. No. 20020112078 A1 to Yach.**

4. As to claim 1, Roberts teaches a software architecture for a distributed comprising system comprising: an application configured to handle requests submitted by remote devices over a network (figure 1 Applications A/B, Web Services Provider C Col. 5 Ln. 1 – 24); and an application program interface to present functions used by the application to access network and computing resources of the distributed computing system (“...web services engine...” (service drivers) Col. 5 Ln. 1 – 24, Col. 5 Ln. 53 - 67).

5. Roberts is silent with reference to a common language runtime layer that can translate Web applications written different languages into an intermediate language supported by the common runtime layer.

6. Yach teaches a common language runtime layer that can translate Web applications written different languages into an intermediate language supported by the common runtime layer (Translator 220 page 4 paragraph 0036).

7. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Yach and Roberts because the teaching of Yach would improve the system of Robert by providing a method for eliminating the complexities between different runtime program environments and thus integrating their inter-relationship (Yach page 1 paragraphs 0004/0005).

8. As to claim 2, Roberts teaches the software architecture as recited in claim 1, wherein the distributed computing system comprises client devices and server devices that handle requests from the client devices, the remote devices comprising at least one client device (Col. 6 Ln. 14 – 19).

9. As to claim 3, Roberts teaches the software architecture as recited in claim 1, wherein the distributed computing system comprises client devices and server devices that handle requests from the client devices, the remote devices comprising at least one server device that is configured as a Web server (Col. 5 Ln. 25 – 52, Col. 6 Ln. 14 – 19).

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10. As to claim 4, Roberts teaches the software architecture as recited in claim 1, wherein the application program interface comprises: a first group of services related to creating Web applications (Col. 7 Ln. 50 – 67, Col. 9 Ln. 27 – 35); a second group of services related to constructing client applications (Col. 14 Ln. 30 – 46); a third group of services related to data and handling XML documents (Col. 10 Ln. 1 – 9, Ln. 59 – 67); and a fourth group of services related to base class libraries (Col. 6 Ln. 7 – 9, Col. 8 Ln. 29 – 38, Ln. 64 – 67).

11. As to claim 5, see the rejection of claim 4 above.

12. As to claim 6, Roberts teaches the application program interface as recited in claim 5, wherein the first group of services comprises: first functions that enable construction and use of Web services (Col. 9 Ln. 27 – 35); second functions that enable temporary caching of frequently used resources (Col. 11 Ln. 1 – 5); third functions that enable initial configuration (Col. 7 Ln. 11 – 15); fourth functions that enable creation of controls and Web pages (Col. 14 Ln. 30 – 46); fifth functions that enable security in Web server applications (Col. 6 Ln. 7 – 9, Ln. 48 – 67, Col. 7 Ln. 50 – 56); sixth functions that enable access to session state values (Col. 6 Ln. 23 – 27).

13. As to claim 7, Roberts teaches the application program interface as recited in claim 5, wherein the second group of services comprises: first functions that enable

creation of windowing graphical user interface; and second functions that enable graphical functionality (Col. 14 Ln. 30 – 46).

14. As to claim 8, Roberts teaches the application program interface as recited in claim 5, wherein the third group of services comprises: first functions that enable management of data from multiple data source (Col. 5 Ln. 25 – 43); and second functions that enable XML processing (Col. 5 Ln. 25 – 37, Col. 10 Ln. 1 – 9, Ln. 59 – 67).

15. As to claim 10, see the rejection of claim 5 above.

16. As to claim 11, see the rejection of claim 1 above.

17. As to claim 12, Roberts teaches the distributed computer software architecture as recited in claim 11, further comprising a remote application configured to be executed on one of the remote computing devices, the remote application using the application programming interface to access the networking platform (figure 1 Web Service Engine 101 Col. 4 Ln. 60 – 67, Col. 5 Ln. 1 – 25).

18. As to claims 13-16, see the rejection of claims 4,6 and 7.

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19. As to claim 19, Roberts teaches the system comprising: means for exposing a set of functions that enable browser/server communication; means for exposing a second set of functions that enable drawing and construction of client applications (Col. 14 Ln. 30 – 46); means for exposing a third set of functions that enable connectivity to data sources and XML functionality (Col. 5 Ln. 25 – 37, Col. 10 Ln. 1 – 9, Ln. 59 – 67); and means for exposing a fourth set of functions that enable system and runtime functionality (Col. 8 Ln. 22 – 28).

20. As to claims 20-22, see the rejection of claims 6-8 respectively.

21. As to claims 24 and 26, see the rejection of claim 19 above.

22. As to claims 27-29, see the rejection of claims 6-8 respectively.

23. As to claim 25, Roberts teaches the computer implemented method as recited in claim 24, further comprising receiving a request from a remote computing device, the request containing a call to at least one of the first, second, third, and fourth functions (Col. 5 Ln. 1 – 25).

24. As to claim 31, see the rejection of claim 24 above.

25. As to claims 32-34, see the rejection of claims 6-8 above.

26. As to claim 36, see the rejection of claim 19 above.
27. As to claims 37-39, see the rejection of claim 6-8 respectively.

***Claim Rejections - 35 USC § 103***

28. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

29. **Claims 9,17,18,23,30,35,40 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 6,792,605 B1 to Roberts et al. in view of U.S. Pub. No. 20020112078 A1 to Yach as applied to claim 5, and further in view of U.S. Pat. No. 5,987,517 to Firth et al.**

30. As to claim 9, Roberts teaches the application program interface as recited in claim 5, wherein the fourth group of services comprises: first functions that enable definitions of various collections of objects (Col. 8 Ln. 50 – 67); fifth functions that enable input/output of data (Col. 8 Ln. 29 – 38, Ln. 64 – 67); sixth functions that enable a programming interface to network protocol (figure 1 Col. 4 Ln. 60 – 67, Col. 5 Ln. 25 – 37); eleventh functions that enable character encoding (inherent in XML language, since



XML language supports character encoding); ninth functions that enable system security and permissions (Col. 6 Ln. 7 – 9); tenth functions that enable installation and running of services (Col. 9 Ln. 27 – 35); and thirteenth functions that facilitate runtime operations (Col. 8 Ln. 22 – 28).

31. Roberts is silent with reference to second functions that enable programmatic access to configuration settings and handling of errors in configuration files; third functions that enable application debugging and code execution tracing; fourth functions that enable customization of data according to cultural related information; seventh functions that enable a managed view of types, methods, and fields; eighth functions that enable culture-specific resources and twelfth functions that enable multi-threaded programming;

32. Firth teaches second functions that enable programmatic access to configuration settings and handling of errors in configuration files/third functions that enable application debugging and code execution tracing (Col. 13 Ln. 6 – 29); fourth functions that enable customization of data according to cultural related information/eighth functions that enable culture-specific resources (Col. 13 Ln. 6 – 29); seventh functions that enable a managed view of types, methods, and fields; twelfth functions that enable multi-threaded programming (Col. 12 Ln. 52 – 62);

33. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Firth and Roberts because the teaching of Firth would improve the system of Roberts by creating computer network applications by using a library of reentrant network functions which allow an application

to reduce the source code required to interact with a computer network such as the internet (Firth Col. 1 Ln. 9 – 14).

34. As to claims 17,18,23,30,35,40 see the rejection of claim 9 above.

35. As to claim 41, see the rejection of claims 6-9 above.

### ***Response to Arguments***

36. Applicant's arguments with respect to the amendment have been considered but are moot in view of the new ground(s) of rejection.

Applicant argues that the motivation to combine is "...too general and lacking in the type of particularity that describes why the skilled artisan...would select the two references and combine them in the manner suggested by the Office...".

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the motivation to combine is specifically drawn from the prior art used (Firth Col. 1 Ln. 9 – 14).

***Conclusion***

37. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles E. Anya whose telephone number is (571) 272-3757. The examiner can normally be reached on M-F (8:30-6:00) First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, An Meng-Ai can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Charles E Anya  
Examiner  
Art Unit 2194

cea.



WILLIAM THOMSON  
SUPERVISORY PATENT EXAMINER